

## Claims

We claim:

5    1. A radio-frequency (RF) apparatus capable of transmitting radio-frequency signals, the  
radio-frequency apparatus comprising:  
transmitter path circuitry, including:  
a voltage-controlled oscillator circuitry configured to generate a first signal that has a first  
frequency; and  
10      a divider circuitry being responsive to the first signal, the divider circuitry configured to  
generate a second signal that has a second frequency,  
wherein the second frequency equals the first frequency divided by a number.

15     2. A radio-frequency (RF) apparatus, comprising:  
a first circuit partition, comprising receiver analog circuitry configured to produce a  
digital receive signal from an analog radio-frequency signal; and  
a second circuit partition, comprising receiver digital circuitry configured to accept the  
digital receive signal, wherein the first and second circuit partitions are partitioned  
20      so that interference effects between the first circuit partition and the second circuit  
partition tend to be reduced.